Under the Paperwork Reduction Act of 1995, no persons are required to resp

UTILITY PATENT APPLICATION

Signature

nica to respond to a conde	ion or information among it displayed that	
Attomey Docket No.	H0005288	
First Inventor	ESKRIDGE, MARK H.	
Title	Flip Chip Bonded Micro-Electromechanical System	
Express Mail Label	ER502985394US	

TRANSMITTAL			-	Flip Chip	Bonded Micr	o-Electromechanical S	ystem
(Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Main			Mail Label		ER502	985394US	ر
See MPEP	APPLICATION ELEMENTS chapter 600 concerning utility patent application c	ontents.	,	ADDRESS TO	O: Commissi P. O. Box	Patent Application loner for Patents 1450 a VA 22313-1450	S. PT 1609
2. Ap See 3. Sp (pp - C - See - E - E - C	pee Transmittal Form (e.g., PTO/SB/17) pubmit an original, and a duplicate for fee processing policant claims small entity status. The process of the	32]	(if appli a. b.	Computer Potide and/or A ficable, all necession Specification i. Computer Specification ii. State: COMPAN Assignment 37 CFR 3.73 (when there is	CD-R in dup rrogram (App Amino Acid S ssary) outer Readab in Sequence (CD-ROM or C Paper ments verifying YING APP Papers (coverable)	dicate, large table or endix) sequence Submission sle Form (CRF) Listing on: CD-R (2 copies); or significant of above continuous sequences. LICATION PART er sheet & document(south) Power of A	S ;))
4. Drawing(s) (35 U.S.C. 113) [Total Sheets 4] 5. Oath or Declaration [Total Pages 2] a. Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76 18. If a CONTINUING APPLICATION, check appropriate box, and suppreparation following the title, or in an Application Data Sheet under 37 CFR 1.76 Continuation Divisional Continuation-in-part (6)		15	Information I Statement (II Statement (II Preliminary A Return Rece (Should be spe Certified Cop (if foreign prior Nonpublicati (b)(2)(B)(i). or its equival Other: Titler Two site information	Disclosure DS)/PTO-144 Amendment cipt Postcard ecifically itemize by of Priority ity is claimed) on Request to Applicant mulent. e Page / Return be (2) Credit Ca below and in the	(MPEP 503) ed) Document(s) under 35 U.S.C. 122 ist attach form PTO/S m Receipt Postcard (2x) ard Payment Forms	B/35	
For CONTINU	application information: Examiner JATION OR DIVISIONAL APPS only: The entity, is considered a part of the disclosure of the incorporation can only be relied upon when a second can only be relied upon a second can only	e accompa a portion ha	nvina continua	application, for tion or division tently omitted	nal applicatio	n and is hereby incorpo	orated by
X	Customer Number:	0012	8	O	r 🗀 Corre	espondence address belo	w
	Timothy M. Carlson (Reg. No. 38,095)						
Name	Honeywell International, Inc.						
Address	101 Columbia Road, Law Department AB2						
City	MORRISTOWN	State	NEW JERSE	EY	Zip Code	07962	
Country	USA Te	lephone	425-885-850	9	Fax	425- 885-8797	
Name	(Printfilm)		Regis	stration No. (A	Attorney/Agent)	43.068	\

This collection of information is required by 37 CFR 153(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete. including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date

03/18/04

PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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FEE	TRANSMITTAL	
	for FY 2004	

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$) \$846.00

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Complete if Known			
Application Number	new app. (EXP. MAIL ER502985394US)		
Filing Date	March 18, 2004		
First Named Inventor	MARK ESKRIDGE		
Examiner Name	not assigned		
Art Unit	not assigned		
Attorney Docket No.	H0005288		

METHOD OF PAYMENT (check all that apply) FEE CALCULATION (cont			E CALCULATION (continued)			
Check Credit card Money Other None			NAL			
Deposit Account:	Large F Fee	ntity Fee	<u>Smal</u> Fee	LEntity Fee	Fee Description	Fee Paid
Deposit Account	Code 1051	(\$) 130	Code 2051	(\$)	Surcharge - late filing fee or oath	ree Paid
Number	1051	50	2051		Surcharge - late provisional filing fee or cover	
Deposit Account				20	sheet	
Name	1053	130	1053	130	Non - English specification	
The Director is authorized to: (check all that apply)		2,520			For filing a request for ex parte reexamination	
Charge fee(s) indicated below Credit any overpayments	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge any additional fee(s) or any underpayment of fee(s)	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner	
Charge fee(s) indicated below, except for the filing fee	1251	110	2251	55	action Extension for reply within first month	
to the above-identified deposit account.	1252	420	2252	210	Extension for reply within second month	
FEE CALCULATION	1253	950	2253	475	Extension for reply within third month	
1. BASIC FILING FEE	1254	1,480	2254	740	Extension for reply within fourth month	
Large Entity Small Entity Fee Fee		2,010	2255		Extension for reply within fifth month	
Code (\$) Code (\$) Fee Paid	1401	330	2401		Notice of Appeal	
1001 770 2001 385 Utility filing fee 770.00 1 1002 340 2002 170 Design filing fee	1402	330	2402	165	Filing a brief in support of an appeal	
1002 340 2002 170 Design filing fee	1403	290	2403	145	Request for oral hearing	
1004 770 2004 385 Reissue filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1005 160 2005 80 Provisional filing fee	1452	110	2452	55	Petition to revive - unavoidable	
SUBTOTAL (1) (\$) \$770.00	1453	1,330	2453	665	Petition to revive - unintentional	
	1501	1,330	2501	665	Utility issue fee (or reissue)	
2. EXTRA CLAIM FEES FOR UTILITY AND Fee from	1502	480	2502	240	Design issue fee	
Extra Claims below Fee Paid	1503	640	2503	320	Plant issue fee	
Total Claims 22 -20** = 2 X 18.00 = 36.00 Independent 3 - 3** = 0 X 0.00 = 0.00	1460	130	1460	130	Petitions to the Commissioner	
Claims 0.00 = 0.00	1807	- 50	1807	50	Processing fee under 37 CFR § 1.17(q)	
Large Entity Small Entity	1806	180	1806	180	Submission of Information Disclosure Statement	
Fee Fee Fee Fee Description Code (\$) Code (\$)	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00
1202 18 2202 9 Claims in excess of 20	1809	770	2809	385	Filing a submission after final rejection	
1201 86 2201 43 Independent claims in excess of 3	1810	770	2810	205	(37 CFR § 1.129(a)) For each additional invention to be examined	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2010	303	(37 CFR § 1.129(b))	
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801		Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20	1802	900	1802	900	Request for expedited examination of a design application	
and over original patent	Oth	er fee (specify))		
SUBTOTAL (2) (\$) \$36.00						
**or number previously paid, if greater; For Reissues, see above	*Red	luced b	y Basic	: Filing i	Fee Paid SUBTOTAL (3) (\$)	\$40.00
SUBMITTED BY					Complete (if applicable)	

CHARLES J. RUPNICK

Name (Print/Type

Signature

WARNING: Information on this form may become public. Credit card information should not be included on this form. Profibe credit card information and authorization on

This collection of information is required by 37 FFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete his form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Registration No.

(Attorney/Agent)

43,068

Telephone

(253) 859-9128

MARCH 18, 2004

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below in an envelope as "Express Mail Post Office to Addressee" mailing Label Number ER502985394US addressed to:

Commissioner for Patents

Alexandria, VA 22313-145

Signature of Depositor

Rhonda Goodloe
Print Name of Depositor

Date: March 18, 2004

IN THE UNITED STATES

PATENT AND TRADEMARK OFFICE

Attention: Mail Stop New Patent Application Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of:

Inventor(s): ESKRIDGE, Mark H.

For: (Title): FLIP CHIP BONDED MICRO-ELECTROMECHANICAL

SYSTEM (MEMS) DEVICE

1. Type of Application

This new application is for a(n)

X	Original (nonprovision	nal)
	Design	
	Divisional	
	Continuation	
	Continuation-In-Part	(CIP)

 Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121).

The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

3.	Papers Enclosed
A.	Required for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 (Design) Application
	27 Pages of specification 1 Page of Title Page 4 Pages of claims 4 Sheets of drawings (Figs. 1-9)
	<pre>The enclosed drawings are photographs(s). The enclosed drawings are in color. Three (3) sets of color drawings and a "PETITION TO ACCEPT COLOR DRAWINGS" are attached. 37 C.F.R. § 1.84 (a)(2) AND § 1.84 (b).</pre> ★ formal
	<pre> formal informal </pre>
в.	Other Papers Enclosed
	2 Pages of declaration and power of attorney1 Pages of abstract Request for Non-publication of applicationx Other (Return Receipt Postcards (2x)
4.	Additional papers enclosed
	Amendment to claims Cancel in this application claims before calculating the filing fee. (At least one original independent claim must be retained for filing
	<pre>purposes). Add the claims shown on the attached amendment (Claims added have been numbered consecutively following the highest numbered original claims).</pre>
	Preliminary Amendment Information Disclosure Statement (37 C.F.R. § 1.98) Form PTO-SB08 Citations
5. ⊠	Declaration or Oath (including Power of Attorney) Enclosed Executed by the inventors Joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached. This is the petition required by 37 CFR §1.47 an the statement required by 37 CFR §1.47 is also attached.
	Not enclosed

6.	Inventorship Statement
The	inventorship for all the claims in this application are:
	The same Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made, is submitted. will be submitted.
7. ⊠	Language English
8.	Assignment
\boxtimes	An assignment of the invention to HONEYWELL INTERNATIONAL, INC.
	is attached. A separate COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION or Form PTO 1595 is also attached. will follow.
	This is acontinuationdivisional application and the assignment document for the parent application was filed as Reel, Frame
9.	Certified Copy
Cert	ified copy(ies) of application(s):
C	ountry Appln. No. Filed
from	which priority is claimed
	☐ is (are) attached ☐ will follow.

10. Fee Calculation (37 C.F.R. § 1.16)

A. 🛛 Regular Appl	ication		
	CLAIMS AS FI	LED	
Number Filed	Number Extra	Rate	Basic Fee 37 CFR. § 1.16(a) \$770.00
Total Claims			25.00
(37 CFR § 1.16(c)) 22-20=	2	X \$18.00	\$ 36.00
Independent Claims (37 CFR § 1.16b)) 3-3=	0	x \$86.00	\$ 0
Multiple dependent claims		40000	
(37 CFR § 1.16)(d))	_	+ \$290.00	\$ 0
Amendment canceling Amendment deleting Fee for extra clair	multiple-depe	endencies is eaid at this	enclosed.
	cation 7 C.F.R. § 1.16 ILING FEE CALCU		\$
11. Assertion of Small	Entity Status	1	
Applicant hereby asserts status as a small entity under 37 C.F.R. § 1.27.			
Filing Fee Calculation	(50% of A, B,	or C above).	
\$			
12. Fee Payment Being	Made At This T	ime	
☐ Not enclosed. ☐ No filing fe	e is to be paid	d at this ti	me.
Filing Fee: Recording As (\$40.00; 37	signment C.F.R. § 1.21 (\$806.00 \$ 40.00
TOTAL F	EES ENCLOSED:		\$846.00

13.	Metho	d of	Payment of Fees		
	Autho				
				ittal is attached. required by this paper or	
Ш				the manner authorized above.	
\boxtimes			Card as shown on n authorization	the attached credit card form PTO -2038.	
14.	Autho	rizat	ion to Charge Ad	ditional Fees	
	above paper), to	charge the follo during the entire	rized, (in the manner shown owing additional fees by this e pendency of this application to	
				(f) or (g) (filing fees)	
			F.R. § 1.16(b), a claims)	(c) and (d) (presentation of	
		37 C.	F.R. § 1.16(e) (surcharge for filing the basic claration on a date later than the	
			-)-(5) (extension fees	
		pursu	ant to § 1.136(a))).	
				plication processing fees)	
			_	tue fee at or before mailing	
			(b)).	e, pursuant to 37 C.F.R. §	
Date:	Marc	h 18.	2004	Mars 1 Poll	
		,		SIGNATURE OF ATTORNEY	
Phone			359-9128	GUADI EG. I. DUDNI GV.	
Fax:		∠53-6	359-8915	CHARLES J. RUPNICK // Reg. No. 43,068	
Custo	mer	No.	00128	04700 1045 3 0 5	
				24722-104th Avenue, S.E. Suite 102	
				Kent, Washington	

98030-5322

Ш	Inco	rporation by reference of added pages
		Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed
		Number of pages added:
		Plus Added Pages for Papers Referred to in Item 4 above.
		Number of pages added:
		Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.
		Number of pages added:
		Plus "Assignment Cover Letter Accompanying New Application"
		Number of pages added:
\boxtimes	Sta	tement Where No Further Pages Added
	\boxtimes	This transmittal ends with this page.